

HIGH PRECISION GROUT



VetogROUT CG519

High strength, non-shrink cementitious grout

Uses

- Can be used at any consistency, from fluid to plastic, for bedding, grouting, and precision bearing operations, including but not limited to: generators, crane rails, milling machines, precast elements, and anchor bolts.
- Can be used as a very high-strength plastic-pack repair mortar for major and minor structural repairs with thicknesses ranging from 20 - 100 mm.
- Can be used as a high-strength castable “micro-concrete” for large-scale structural repairs to core walls, columns, beams, etc., where both high strength and fluidity are required.

Product Description

VetogROUT CG519 is a ready to use product in powder form, which requires only the on-site addition of water to produce a high strength non-shrink grout (compressive strength > 85 N/mm²). VetogROUT CG519 is composed of it composed of a blend of hydraulic cements, carefully selected and graded aggregates, and special additives to give it its unique properties.

Advantages

- Non shrink.
- High dense, impermeable.
- Large grouting and repair volumes.
- Different consistencies.
- High bonding to concrete and steel.
- High compressive strength.

Technical Data

VetogROUT CG519	Typical Values @ 25°C & 55% RH
Appearance	Granular Grey Powder
Dry Bulk Density (kg/liter)	1.4 ± 0.1
Water/Powder ratio (%)	
Plastic	11 - 13
Flowable	13 - 14.5
Fluid	15 - 16.5
Wet Density (kg/liter)	2.0 - 2.4
Compressive Strength (MPa) @ flowable Consistency - ASTM C109	
@ 1 days	> 30
@ 3 days	> 52
@ 7 days	> 65
@ 28 days	> 85
Flexural Strength 28 days (MPa) ASTM C580	> 11
Water penetration (mm) BS EN 12390 Part 8 & DIN 1048	< 10
RCTP (coulombs) - ASTM C1202	< 1000 - Very Low
Early High Change (%) - ASTM C827	+2 Approx.
Dry Shrinkage (%) - ASTM C157	≤ 0.02

Standards Compliance

- ASTM C1107

Usage Instructions

Surface Preparation

The surface should be sound, clean, and free from loose material, grease, laitance, dirt-curing compounds, etc.

Wet the substrate to achieve a saturated and dry surface condition before the application of VetogROUT CG519.

Erect the hopper system and a form-work, make sure that the shuttering is watertight. This step ensures no leakage of cement paste and water from the shuttering. Contact Saveto's local representative for more technical information, Saveto's grouting detailed method statement, and CAD details.

The base plate must be clean and free from oil, grease, or scale. Air pressure relief holes should be provided to allow venting of any isolated high spots. If leveling shims are used and removed after the grout has hardened, they should be treated with a thin layer of grease.

Unrestrained Surface Area

Generally, the gap width between the perimeter formwork and the plate edge should not exceed 150 mm on the pouring side, and 50 mm on the opposite side. It's recommended to not have a gap at the flank sides.

Mixing

For best results, use a mechanically powered grout mixer. When using quantities up to 50 kg, a slow-speed drill fitted with a high shear mixer is ideal. Larger quantities will require a high-shear vane mixer (Do not use a colloidal impeller mixer).

To enable a continuous grouting operation, it is essential to provide sufficient mixing capacity and labor. It may require the use of a grout holding tank (it's essential to agitate the grout gently).

Add water until you reach the desired consistency.

Slowly add the entire content of the VetogROUT CG519 bag then mix continuously for 5 minutes or till achieving a lump free grout as per the desired consistency. This will ensure that the grout has a smooth, even consistency.

Placing

Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Place VetogROUT CG519 at a thickness up to 100 mm in a single pour (When used as an under-plate grout).

For thicker sections, it is necessary to fill out VetogROUT CG519 with 30 - 50% of the well-graded and silt-free aggregate -depending on the thickness (typically 10 mm aggregate is enough).

Any bolt pockets must be grouted before grouting between the substrate and the base plate. (Continuous grout flow is essential). Prepare a sufficient amount of grout before starting and regulate the time taken to pour a batch to the time to prepare the next one. The repair area should not exceed 2.5 m² in a single application.

Curing

When the grouting process is complete, cover exposed areas well with polyethylene sheets to prevent evaporation of the water in the mix for the first 24 hours; later, the grouted area should be cured using clean potable water twice a day for 3 days. Or you can use the Vetocure XT425 (a water-based curing compound after placing the grout).

Cleaning

Remove VetogROUT CG519 from tools and equipment with clean water immediately after use. Remove cured material mechanically.

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Packaging & Coverage

Product	Pack Size	Yield
VetogROUT CG519	25 Kg Bag	12 - 13 Liter
Vetobond AB432	4 Liter Can	6 - 8 m ² /Liter
Vetobond EB430	25 Kg Bag	8 m ² /Liter

Stated consumption data are for general guidance. Actual consumption depends on the nature of substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed bag of VetogROUT CG519 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded temperature-controlled place (between 5 - 35°C).

Health & Safety

VetogROUT CG519 contains resins (which may cause sensitization via skin contact). Avoid contact with your skin and eyes and do not inhale vapor. Wear suitable protective clothing, gloves, and eye/face protection.

Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin-removing cream, followed by soap and water. Do not use solvents. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

VetogROUT CG519 is non-flammable.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.

Saveto also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals, product selectors and technical support both in contractors and consultants offices as well as construction sites.

Legal Disclaimer

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